

ASTD/TDI Project Static Report

Passive Reactive Barrier Collection and Treatment of Groundwater

Focus Area:	Subsurface Contaminants Focus Area	Focus Area Manager: Carl Lanigan, (803) 725-0404
TTP No.:	RF19SS31	Principal Investigator: Lane Butler, (303) 966-4226
Lead Site:	Rocky Flats	
Project No.:	99-ASTD-29	Technology Vendor(s)/Commercial Partner(s):
Tech ID/TMS No.:	46	Environmental Technologies, Inc.
Related Publication(s):	None	

Web Page(s):

Description: The passive barrier system consists of a groundwater collection system combined with a passive treatment system that uses reactive iron filings. The groundwater collection system consists of a geo-membrane and perforated pipe installed in a trench. Collected groundwater will be fed by gravity to a subsurface treatment system (iron filings bed) for destruction of volatile organic compounds (VOCs) and for removal of radionuclides.

Application: Sites with shallow groundwater (depth less than 40 feet) contaminated with VOCs (e.g., TCE) and redox-sensitive metals.

Location(s): RFETS

Technology(ies):

Zero-Valent Iron Passive Treatment

	Funding (\$K):	<u>FY-98</u>	<u>FY-99</u>	<u>FY-00</u>	<u>FY-01</u>	<u>Total</u>
TTP No.:	RF19SS31	\$0	\$750	\$750	\$0	\$1,500
Leverage Source:	EM-40					\$2,700
						Funding Total (\$K):
						\$4,200

Cost Savings (\$M):	<u>Proposal</u>	<u>Deployment Plan/TTP</u>	<u>Current Focus Area Projection</u>
	Pending	Pending	\$34,000